Amendments to the claims

This listing of claims will replace all the prior revisions, and listings of claims in this application.

Listing of Claims

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1   1.   (Previously Presented) A method for configuring a portable and/or mobile host that
2   powers up in a foreign network to connect to the Internet, comprising the steps of

3   creating a bootstrapping agent in [[a]] the home network that works cooperatively
4   with a Mobile IP home agent to initially allocate a temporary home address to said portable
5   and/or mobile host that powers up in [[a]] the foreign network,

6   the portable and/or mobile host using the Mobile IP protocol to contact said Mobile
7   IP home agent and request said bootstrapping agent to allocate said temporary home address
8   to said portable and/or mobile host while the mobile host is in the foreign network, and

9   using in the foreign network, said temporary home address to create a temporary
10 tunnel between a foreign agent associated with said portable and/or mobile host and said
11 Mobile IP home agent, wherein said temporary tunnel is used to communicate configuration
12 information including a permanent home address allocated by a Dynamic Host Configuration
13 Protocol (DCHP) server between the portable and/or mobile host and its home network,
14 when the portable and/or mobile host powers up in the foreign network, thereby allowing the
15 portable and/or mobile host that powers up in a foreign network to connect to the Internet.

1   2.   (Original) The method of claim 1 wherein said foreign agent is co-located with said
2   mobile host.

1   3.   (Original) The method of claim 1 wherein said foreign agent is located on a device that is
2   external to said mobile host and resides in said foreign network.

1   4. (Original) The method of claim 1 wherein said bootstrapping agent is arranged to assign
2   IP addresses from an address pool of private addresses.

1   5. (Previously presented) The method of claim 4 wherein private addresses are in the format
2   10*.

1   6. (Original) The method of claim 1 wherein said bootstrapping agent is arranged to assign
2   IP addresses from an address pool of public addresses.

1   7. (Previously Presented) The method of claim 1 wherein a DHCP client located on said
2   portable and/or mobile host is used to generate messages requesting said configuration
3   information from the DHCP server via said temporary tunnel.

1   8. (Original) The method of claim 7 wherein said messages generated by said DHCP client
2   are modified at said portable and/or mobile host to have a format consistent with a DHCP
3   relay.

1   9. (Previously Presented) A method for enabling a mobile host without an IP home address
2   while in a foreign network, to connect to the Internet when powering up in the foreign
3   network, comprising the steps of:
4   obtaining a temporary IP home address for said mobile host powering up in the
5   foreign network without an IP home address from a temporary IP address source accessible
6   through a bootstrapping agent that works cooperatively with a mobile IP home agent,
7   establishing a transient tunnel between said mobile IP home agent and a mobile IP
8   foreign agent associated with said mobile host while the mobile host is in said foreign
9   network, using said temporary IP home address,

10   acquiring, via said transient tunnel, configuration parameters including a

11   permanent IP home address from a Dynamic Host Configuration Protocol (DHCP)

12   server located in the home network of said mobile host, and

13   replacing said transient tunnel with a new tunnel between said mobile IP home

14   agent and said mobile IP foreign agent using said permanent IP home address,

15   thereby allowing a mobile host without an IP home address to connect to the Internet

16   when powering up in the foreign network.

10. – 12. (Cancelled).

1   13.   (Previously Presented) A method for configuring a mobile host that powers up in a

2   foreign network, comprising:

3   setting up a temporary IP tunnel via the Mobile IP protocol to connect said mobile

4   host to its home network while the mobile host is in the foreign network,

5   using an IP broadcasting protocol over said temporary IP tunnel so that said mobile

6   host can discover a Dynamic Host Configuration Protocol (DHCP) addressing server in its

7   home network, and

8   using the DHCP protocol to communicate addressing and configuration information

9   between said addressing server and said mobile host while the mobile host is in the foreign

10   network.

1   14. (Previously presented) In a system arranged to use an IP tunnel to relay via the Internet

2   communication packets that are destined to a mobile host from a home server in said host's

3   home network to a foreign server when said host is in a foreign network, wherein the

4   establishment of said IP tunnel requires said home server and foreign server to know a

5   permanent IP home address of said mobile host, a method for configuring said mobile host

6   when it powers up in said foreign network without said IP home address, comprising the

7   steps of

8   obtaining a temporary IP home address for said mobile host from an IP address source

9   accessible thorough said home server,

10   establishing a transient tunnel between said home server and said foreign server using

11   said temporary IP home address while the host is in the foreign network,

12   acquiring, via said transient tunnel, permanent configuration parameters including the

13   permanent IP home address from a DHCP server located in a region served by said

14   home server while while the host is in the foreign network,

15   replacing said transient tunnel with a new tunnel between said home server and said

16   foreign server using said permanent IP home address.